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CATALYST COMPOSITION FOR THE POLYMERIZATION OF OLEFINS

ABSTRACT

This invention relates to a polymerization process and a composition comprising an activator and a catalyst precursor represented by the formula:

$$CpD^a(JY)(Q)_{(a-2)},$$

wherein:

Cp is a substituted or unsubstituted cycloalkadienyl group or related cycloalkadienyl cogener,

each Q is independently an anionic leaving group,

J is a group 15, 16 or 17 atom;

a is the oxidation state of D,

D is a group 4, 5 or 6 metal, provided however that when Cp is a mono-cyclic cyclopentadienyl group M is not titanium, and

Y is a heteroatom, a substituted heteroatom or a C_1 to C_{100} hydrocarbyl group which may optionally contain one or more heteroatoms.

